

Claims:

1. A terminal (1) to be used in a system, where there is a device management server (3) and a data transfer network (2) for transmitting  
5 information used in connection with configuration between the terminal (1) and the device management server (3), **characterized** in that the terminal (1) comprises means (13, 16, 18, 19) for detecting a change in the capabilities of the terminal, and means (13, 15) for transmitting information on the change of the terminal capabilities to the device  
10 management server (3).
2. The terminal (1) according to claim 1, **characterized** in that it comprises at least one accessory connection (19), in which case said means (13, 16, 18, 19) for detecting change in the terminal capabilities  
15 comprise a connection bus (19.1) for detecting whether an accessory (20) has been connected to said accessory connection (19).
3. The terminal (1) according to claim 1 or 2, **characterized** in that at least one user module (17) is installed in it, in which case said means  
20 (13, 16, 18, 19) for detecting change in the terminal capabilities comprise a user module connection (18) for transmitting information between the user module (17) and the terminal (1).
4. The terminal (1) according to claim 3, **characterized** in that a user  
25 identity is stored in the user module (17), that a user identity read previously from the user module is stored in the terminal (1), in which case in order to determine a change in the terminal (1) capabilities, the user identity stored in the user module (17) and the user identity stored in the terminal (1) are arranged to be compared.  
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5. The terminal (1) according to claim 3 or 4, **characterized** in that an equipment identity is stored in the terminal (1), that an equipment identity read previously from the terminal is stored in the user module (17), in which case in order to determine a change in the terminal (1)  
35 capabilities, the equipment identity stored in the user module (17) and

the equipment identity stored in the terminal (1) are arranged to be compared.

- 5 6. The terminal (1) according to any of the claims 1 to 5, **characterized** in that it comprises means (13, 16) for installing and updating applications in a terminal (1) as well as for removing them from the terminal (1), in which case said means (13, 16, 18, 19) for detecting change in the capabilities of the terminal comprise means (13) for detecting the installation, update and removal of applications.
- 10 7. The terminal (1) according to claim 6, **characterized** in that the capability information of the terminal (1) has been provided to the terminal (1) in the installed application.
- 15 8. The terminal (1) according to claim 6 or 7, **characterized** in that it comprises means (13, 16) for changing the preferences of the application, in which case said means (13, 16, 18, 19) for detecting change in the terminal capabilities comprise means (13, 17) for detecting change in the application preferences.
- 20 9. The terminal (1) according to any of the claims 1 to 8, **characterized** in that it comprises means (13, 16, 17) for installing and updating a service in a terminal (1) as well as for removing it from the terminal (1), in which case said means (13, 16, 18, 19) for detecting change in the capabilities of the terminal comprise means (13, 17) for detecting the installation, update and removal of the service.
- 25 10. The terminal (1) according to claim 9, **characterized** in that it comprises means (13, 16, 17) for changing the preferences of the service, in which case said means (13, 16, 18, 19) for detecting change in the terminal capabilities comprise means (13, 17) for detecting change in the service preferences.
- 30 11. The terminal (1) according to any of the claims 1 to 10, **characterized** in that the means (13, 15) for transmitting information about the change in the terminal capabilities to the device management
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server (3) comprise message formation means (13) for forming a request message, in which request message is arranged to be transmitted a request for providing parameter preferences to the terminal (1), and sending means (15) for sending said request  
5 message to a data transfer network (2).

12. The terminal (1) according to claim 11, **characterized** in that a request message formed in the message formation means (13) is a UAPProf message.

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13. The terminal (1) according to any of the claims 1 to 12, **characterized** in that from the terminal (1) is arranged to be sent at least the following capability information via a mobile communication network (2) to a device management server (3):

- 15 - a protocol supported by the terminal (1), which can be used in transmitting parameter preferences to the terminal (1),  
- information on the manufacturer of the terminal (1),  
- information on the model of the terminal (1), and  
- information on the software version of the terminal (1).

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14. The terminal (1) according to any of the claims 1 to 13, **characterized** in that in the terminal (1) are stored all the parameters stored by the users that have used the terminal (1), as well as the corresponding user identities, in which case the terminal (1) comprises  
25 means (13, 16) for examining whether the previously used user identities and the corresponding parameters are stored in the terminal (1), in which case in the terminal (1) sending information on the capabilities of a terminal to a data transfer network (2) is arranged to be prevented and the previously stored parameters are arranged to be  
30 taken into use.

15. The terminal (1) according to any of the claims 1 to 14, **characterized** in that it is a wireless terminal (1).

35 16. A system, which comprises a terminal (1), a device management server (3), and a data transfer network (2) for transmitting information

used in connection with terminal (1) configuration between the terminal (1) and the device management server (3), **characterized** in that the terminal (1) comprises means (13, 16, 18, 19) for detecting a change of the capabilities of the terminal, in which case the system comprises  
5 means (2, 12) for transmitting the information on the change of the terminal capabilities to the device management server (3), means (4) for determining parameter preferences corresponding to the changed capabilities, and means (2, 3, 12) for sending the parameter preferences that correspond to the new capabilities to the terminal for  
10 configuring the terminal (1).

17. The system according to claim 16, **characterized** in that the device management server (3) comprises means (4) for determining the parameter preferences that correspond to the terminal (1) capabilities  
15 and for sending them via a data transfer network (2) to the terminal (1).

18. The system according to claim 16 or 17, **characterized** in that in the terminal (1) is installed at least one service of a service provider, in which case the terminal (1) is arranged to send information on change  
20 of the service preferences to the device management server (3) and the device management server (3) comprises means for determining the parameter preferences that correspond to the service changed in the terminal (1) from the service provider.

25 19. The system according to claim 18, **characterized** in that determining the parameter preferences is arranged to be performed by sending the information on the change of the service preferences received from the terminal (1) from the device management server (3) to the service provider, in which case the service provider is arranged  
30 to perform the terminal (1) configuration.

20. The system according to claim 17, 18 or 19, **characterized** in that in the data transfer network (2), the parameter preferences received from the device management server (3) are arranged to be handled by  
35 modifying them or by adding new setting to them.

21. The system according to claim 16, 17 or 20, **characterized** in that the terminal (1) comprises at least one accessory connection (19), in which case said means (13, 16, 18, 19) for detecting change in the terminal capabilities comprise a connection bus (19.1) for detecting  
5 whether an accessory (20) has been connected to said accessory connection (19).

22. The system according to any of the claims 16 to 21, **characterized** in that at least one user module (17) is installed in the terminal (1), in  
10 which case said means (13, 16, 18, 19) for detecting changes in the terminal capabilities comprise a user module connection (18) for transmitting information between the user module (17) and the terminal (1).

15 23. The system according to claim 22, **characterized** in that a user identity is stored in the user module (17), that a user identity read previously from the user module is stored in the terminal (1), in which case in order to determine a change in the terminal (1) capabilities, the user identity stored in the user module (17) and the user identity stored  
20 in the terminal are arranged to be compared.

24. The system according to claim 22 or 23, **characterized** in that an equipment identity is stored in the terminal (1), that an equipment identity read previously from the terminal is stored in the user module  
25 (17), in which case in order to determine a change in the terminal (1) capabilities, the equipment identity stored in the user module (17) and the equipment identity stored in the terminal (1) are arranged to be compared.

30 25. The system according to any of the claims 16 to 22, **characterized** in that it comprises means (13, 16) for installing and updating applications in a terminal (1), as well as for removing them from the terminal (1), in which case said means (13, 16, 18, 19) for detecting change in the capabilities of the terminal comprise means (13) for  
35 detecting the installation, update and removal of applications.

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26. The system according to claim 25, **characterized** in that capability information of the terminal has been provided to the terminal (1) in the installed application.

5 27. The system according to any of the claims 16 to 26, **characterized** in that the means (13, 15) for transmitting information about the change in the terminal capabilities to the device management server (3) comprise message formation means (13) for forming a request  
10 message, in which request message is arranged to be transmitted a request for providing parameter preferences to the terminal (1), and sending means (15) for sending said request message to a data transfer network (2).

15 28. The system according to claim 27, **characterized** in that a request message formed in the message formation means (13) is a UAPProf message.

20 29. The system according to any of the claims 16 to 28, **characterized** in that from the terminal (1) is arranged to be sent at least the following capability information via a mobile communication network (2) to a device management server (3):

- a protocol supported by the terminal (1), which can be used in transmitting parameter preferences to the terminal (1),
- information on the manufacturer of the terminal (1),
- 25 - information on the model of the terminal (1), and
- information on the software version of the terminal (1).

30 30. The system according to any of the claims 16 to 28, **characterized** in that in the terminal (1) are stored all the parameters stored by the users that have used the terminal (1) as well as the corresponding user identities, in which case the system comprises means (13, 16) for examining whether the previously used user identities and the corresponding parameters are stored in the terminal (1), in which case  
35 in the system sending information on the capabilities of a terminal to a data transfer network (2) is arranged to be prevented and the previously stored parameters are arranged to be taken into use.

31. The system according to any of the claims 16 to 30, **characterized** in that the terminal (1) is a wireless terminal (1).

5 32. A method in the configuration of a terminal (1), where information used in configuration is sent from the terminal (1) to the device management server (3), **characterized** in that in the terminal (1) are examined changes in the capabilities of the terminal, and if a change is detected in the terminal (1) capabilities, information on the changed  
10 capabilities is transmitted to the device management server (3), where the preferences of the parameters that correspond to the changed capabilities are determined, and information on the new parameter preferences is sent to the terminal (1), where the configuration of the terminal is performed according to the new parameter preferences.

15 33. The method according to claim 32, **characterized** in that in the device management server (3) are determined parameter preferences that correspond to the terminal (1) preferences, and the parameter preferences are sent to the terminal (1).

20 34. The method according to claim 33, **characterized** in that in the data transfer network (2) the parameter preferences received from the device management server (3) are handled by modifying them or by adding new preferences to them.

25 35. The method according to claim 32, 33 or 34, **characterized** in that in the terminal (1) there is at least one accessory connection (19), in which case in order to detect changes in the terminal capabilities, it is examined whether an accessory (20) has been connected to the  
30 accessory connection (19).

36. The method according to any of the claims 32 to 35, **characterized** in that at least one user module (17) is installed in the terminal (1), in which case in order to detect changes in the terminal capabilities,  
35 information is transmitted between the user module (17) and the terminal (1).

37. The method according to claim 36, **characterized** in that a user identity is stored in the user module (17), that a user identity read previously from the user module is stored in the terminal (1), in which  
5 case in order to determine a change in the terminal (1) capabilities, the user identity stored in the user module (17) and the user identity stored in the terminal are compared.

38. The method according to claim 36 or 37, **characterized** in that an  
10 equipment identity is stored in the terminal (1), that an equipment identity read previously from the terminal is stored in the user module (17), in which case in order to determine a change in the terminal (1) capabilities, the equipment identity stored in the user module (17) and the equipment identity stored in the terminal (1) are compared.

39. The system according to any of the claims 32 to 36, **characterized**  
15 in that the terminal (1) comprises means (13, 16) for installing and updating applications in a terminal (1) as well as for removing them from the terminal (1), in which case the detection of change in the  
20 capabilities of the terminal is performed in connection with the installation, update and removal of applications.

40. The method according to claim 39, **characterized** in that the  
25 capability information of the terminal is provided to the terminal (1) in the application to be installed.

41. The method according to any of the claims 32 to 40, **characterized**  
in that in the terminal (1) is formed a request message for transmitting  
30 information on the change of terminal capabilities to the device management server (3), in which case a request for providing parameter preferences in the terminal (1) is transmitted in the request message.

42. The method according to claim 41, **characterized** in that the  
35 request message is an UAProf message.



43. The method according to any of the claims 32 to 42, **characterized** in that from the terminal (1) is sent at least the following capability information to a device management server (3):

- 5       - a protocol supported by the terminal (1), which can be used in transmitting parameter preferences to the terminal (1),
- information on the manufacturer of the terminal (1),
- information on the model of the terminal (1), and
- information on the software version of the terminal (1).

10   44. The method according to any of the claims 32 to 42, **characterized** in that in the terminal (1) are stored the parameters stored by all the users that have used the terminal (1), as well as the user identities corresponding to them, in which case it is examined in the method, whether the previously used user identity and the corresponding  
15   parameters are stored in the terminal (1), in which case if the examination proves that a previously used user identity and the corresponding parameters are stored in the terminal (1), sending information on the terminal capabilities from the terminal (1) to the data transfer network (2) is prevented and the previously stored parameters  
20   are taken into use in the terminal (1).

45. A method for providing configuration information to a terminal (1), where information used in configuration is sent from the terminal (1) to the device management server (3), **characterized** in that in the  
25   terminal (1) are examined changes in the capabilities of the terminal, and if a change is detected in the terminal (1) capabilities, information on the changed capabilities is transmitted to the device management server (3), where the preferences of parameters that correspond to the changed capabilities are determined, and information on the new  
30   parameter preferences is sent to the terminal (1), where the configuration of the terminal is performed according to the new parameter preferences.

46. A computer software product to be used in the configuration of a  
35   terminal (1), which computer software product is provided with machine executable program commands for sending information used in

configuration from the terminal (1) to a device management server (3),  
**characterized** in that the computer software product comprises  
machine executable program commands for determining change in the  
terminal (1) capabilities, for sending information on the changed  
5 capabilities of a terminal (1) to the data transfer network to be delivered  
to the device management server (3), for receiving new parameter  
preferences sent from the device management server (3) to the data  
transfer network (2), and for configuring the terminal according to the  
new parameters.